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Husted et al.

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(54) **INTELLIGENT BAND SELECTION FOR WIRELESS ACCESS POINT**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 22 days.

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(51) **Int. Cl.**
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(57) **ABSTRACT**

An access system for a wireless local area network is provided. The access system initiates operation in a first frequency band of a plurality of frequency bands of the wireless local area network to provide one or more wireless client devices of the wireless local area network with access to a wireless wide area network. The access system also processes one or more association requests received in the first frequency band to identify one or more associated wireless client device. The access system also determines whether each of the one or more associated wireless client devices supports a second frequency band. The access system also sends a request to the one or more associated wireless client devices to transition from the first frequency band to the second frequency band based on determining that each of the one or more associated wireless client devices supports the second frequency band.

(52) **U.S. Cl.**
CPC **H04W 72/0453** (2013.01); **H04B 17/318** (2015.01); **H04W 24/08** (2013.01); **H04W 72/048** (2013.01); **H04W 84/12** (2013.01)

(58) **Field of Classification Search**
CPC .. H04W 72/048; H04W 8/22; H04W 72/0453
See application file for complete search history.

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20 Claims, 5 Drawing Sheets

